

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	46383	(matrices or matrice or fleece or porous) and (uv or crosslink or crosslinking or cross-linking)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 06:41
L2	64240	(matrices or matrice or fleece or porous) and (uv or crosslink or crosslinking or cross-linking)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 06:41
L3	68230	(matrices or matrice or fleece or porous) and (uv or crosslink or crosslinking or cross-linking or cross-link or polymerize)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 06:42
L4	2085	((matrices or matrice or fleece or porous) and (uv or crosslink or crosslinking or cross-linking or cross-link or polymerize)).clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 06:42
L5	291	((matrices or matrice or fleece or porous) and (uv or crosslink or crosslinking or cross-linking or cross-link or polymerize)).clm. and (freeze or freezing)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:42
L6	25	((matrices or matrice or fleece or porous) and (uv or crosslink or crosslinking or cross-linking or cross-link or polymerize)).clm. and ((freeze or freezing) with shape)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 06:51
L7	11	((matrices or matrice or fleece or porous) and (crosslink or crosslinking or cross-linking or cross-link or polymerize)).clm. and ((freeze or freezing) with shape) and ((free adj1 radical) or uv or ultraviolet or infrared)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 06:52
L8	48	((matrices or matrice or fleece or porous) and (uv or crosslink or crosslinking or cross-linking or cross-link or polymerize)).clm. and ((freeze or freezing) SAME shape)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:15
L9	311839	((matrices or matrice or fleece or porous) and (uv or crosslink or crosslinking or cross-linking or cross-link or polymerize)).clm. and ((freeze or freezing) SAME shape) and free radical	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:15
L10	9	((matrices or matrice or fleece or porous) and (uv or crosslink or crosslinking or cross-linking or cross-link or polymerize)).clm. and ((freeze or freezing) SAME shape) and (free with radical)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:28

L11	2	"5410016".pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:28
L12	853	((matrices or matrice or fleece or porous) and (crosslink or crosslinking or cross-linking or cross-link or polymerize)).clm. and (freeze or freezing or shape)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:43
L13	203	((matrices or matrice or fleece or porous) and (crosslink or crosslinking or cross-linking or cross-link or polymerize)).clm. and (freeze or freezing or shape).clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:43
L14	108	((matrices or matrice or fleece or porous) and (crosslink or crosslinking or cross-linking or cross-link or polymerize)).clm. and (freeze or freezing or shape).clm. and tissue	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:53
L15	48302	((matrices or matrice or fleece or porous) and (crosslink or crosslinking or cross-linking or cross-link or polymerize))	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:53
L16	459	((matrices or matrice or fleece or porous) and (crosslink or crosslinking or cross-linking or cross-link or polymerize)) and hubbell	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:54
L17	459	((matrices or matrice or fleece or porous) and (crosslink or crosslinking or cross-linking or cross-link or polymerize)) and (hubbell or swahney)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:54
L18	545	((matrices or matrice or fleece or porous) and (crosslink or crosslinking or cross-linking or cross-link or polymerize)) and (hubbell or sawhney)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:54
L19	1	((matrices or matrice or fleece or porous) and (crosslink or crosslinking or cross-linking or cross-link or polymerize)) and (hubbell or sawhney) and ((shape or size) with freeze)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/04 07:55
L20	1	"6177095".PN.	USPAT; USOCR	OR	OFF	2006/02/04 07:57

(19) Rapidly-degrading polymers currently suggested for short-term macromolecular drug release may raise local concentrations of potentially hazardous acidic degradation byproducts. Further, all biodegradable synthetic polymers reported thus far can only be processed inorganic solvents and all biodegradable polymers are synthesized under conditions which are not amenable to polymerization in vivo. Thus, it has not been possible to make implantable materials as precisely conformed barriers, shaped articles, or membranes capable of delivering bioactive materials to the local tissue.

(20) It is therefore an object of the present invention to provide hydrogels which are biocompatible, biodegradable, and can be rapidly formed by polymerization in vivo.

(21) It is a further object of the present invention to provide a macromer solution which can be administered during surgery or outpatient procedures and polymerized as a tissue adhesive, tissue encapsulating medium, tissue support, or drug delivery medium.

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(34) Tissue Supports.

(35) The macromers can also be used to create tissue supports by forming shaped articles within the body to serve a mechanical function. Such supports include, for example, sealants for bleeding organs, sealants for bone defects and space-fillers for vascular aneurisms. Further, such supports include strictures to hold organs, vessels or tubes in a particular position for a controlled period of time.

Gels in the shape of discs were made using a mold. 400 μ l of solution was used for each disc. The solutions were irradiated for 2 minutes to ensure thorough gelation.